

32692
Customer Number

Patent
Case No.: 56937US002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: HAWKINS, STEPHEN J.
Application No.: 10/014625 Confirmation No.: 1418
Filed: October 22, 2001 Group Art Unit: 1794
Title: POLYOLEFIN PRESSURE SENSITIVE ADHESIVE TAPE WITH AN IMPROVED PRIMING LAYER

FILING OF AMENDED BRIEF

Mail Stop Appeal Briefs-Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR § 1.8(a)]	
I hereby certify that this correspondence is being:	
<input type="checkbox"/>	deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
<input type="checkbox"/>	transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at 571-273-8300.
<input checked="" type="checkbox"/>	transmitted to United States Patent and Trademark Office on the date shown below via the Office electronic filing system.
December 21, 2007	/Madonna Schroeder/
Date	Signed by: Madonna Schroeder

Dear Sir:

The following Amended Brief is submitted in response to the Communication from the Examiner dated November 28, 2007. The Examiner states that the Appeal Brief filed on November 16, 2007 is defective because it does not contain the items required under 37 CFR 41.37(c), or the items are not under the proper heading or in the proper order. It is respectfully submitted that the Amended Brief overcomes the Examiner's objection.

Respectfully submitted,

December 19, 2007
Date

By: /Elizabeth A. Gallo/
Elizabeth A. Gallo, Ph.D., Reg. No.: 51,716
Telephone No.: 651-733-9608

Office of Intellectual Property Counsel
3M Innovative Properties Company
Facsimile No.: 651-736-3833

Amendment to the Appeal Brief

Please add the following text to page 7, following line 2.

CLAIMS APPENDIX

1-23. Cancelled

24. (Previously amended) The method of claim 45 wherein the maleated thermoplastic elastomer is a block copolymer comprising one or more polystyrene blocks, a rubber, or a styrene-ethylene-butene-styrene type block copolymer.

25. Cancelled

26. (Previously amended) The method of claim 45 wherein the resin is a hydrocarbon resin.

27. (Previously amended) The method of claim 45 wherein the non-halogenated polyolefin comprises a $C_2 - C_{30}$ α -olefin monomer.

28. (Previously amended) The method of claim 45 wherein the non-halogenated polyolefin comprises a polyhexene or a polyoctene.

29. Cancelled

30. (Previously amended) The method of claim 45 wherein the first crosslinking agent is an aldehyde, a ketone, a quinone, a thioxanthone, or a vinyl halomethyl-sym-triazine.

31. (Previously amended) The method of claim 45 wherein the first crosslinking agent is 2,4-bis(trichloromethyl)-6-4'-methoxyphenyl-sym-triazine.

32. (Previously amended) The method of claim 45 wherein the primer further comprises an aliphatic, alicyclic, heterocyclic, cycloaliphatic, or aromatic epoxy having at least one oxirane ring.
33. (Previously amended) The method of claim 45 wherein the primer further comprises an epoxy resin comprising a cyclohexene oxide group, a glycidyl ether monomer, or a bisphenol A-epichlorohydrin.
34. (Previously amended) The method of claim 45 wherein the primer further comprises a multi-functional acrylate.
35. (Previously amended) The method of claim 45 wherein the primer further comprises fumed amorphous silica.
36. (Previously amended) The method of claim 45 wherein the primer further comprises a filler.
37. (Previously amended) The method of claim 45 wherein the pressure sensitive adhesive is a polyolefin based pressure sensitive adhesive.
38. (Previously amended) The method of claim 45 wherein the pressure sensitive adhesive is a poly- α -olefin comprising one or more monomer units derived from a $C_5 - C_{30}$ α -olefin monomer.
39. (Previously amended) The method of claim 45 wherein the pressure sensitive adhesive is a poly- α -olefin comprising one or more monomer units derived from $C_6 - C_{14}$ α , ω -dienes, conjugated dienes, trienes, terpenes, or alkenyl-norbornenes.
40. (Previously amended) The method of claim 45 wherein the pressure sensitive adhesive has a glass transition temperature in the range of about -70° to about 0° C.

41. (Previously amended) The method of claim 45 wherein the pressure sensitive adhesive comprises a tackifying resin.

42. Cancelled

43. (Previously amended) The method of claim 45 wherein the second crosslinking agent is an aldehyde, a ketone, a quinone, a thioxanthone, or a vinyl halomethyl-sym-triazine.

44. (Previously amended) The method of claim 45 wherein the substrate comprises a material selected from the group consisting of polyesters, polyolefins, papers, foils, polyacrylates, polyurethanes, perfluoropolymers, polycarbonates, ethylene vinyl acetates, vinyl, fabrics, foam, polymer coated papers, and retroreflective sheeting.

45. (Currently amended) A method of making a tape comprising:

- (a) providing a substrate;
- (b) applying a primer to the substrate, the primer comprising:
 - a maleated rubber thermoplastic elastomer,
 - a non-halogenated polyolefin,
 - a resin having a glass transition temperature between about 0°C and about 100°C, and
 - a first crosslinking agent ~~that may be~~ activated by actinic radiation;
- (c) applying a pressure sensitive adhesive atop the primer, wherein the pressure sensitive adhesive is based on natural rubbers, synthetic rubbers, styrene block copolymers, polyvinyl ethers, poly (meth)acrylates (including both acrylates and methacrylates), polyolefins, or silicones, and wherein the pressure sensitive adhesive further comprises a second crosslinking agent ~~that may be~~ activated by actinic radiation;
- (d) applying actinic radiation to crosslink the primer and the pressure sensitive adhesive.

46. Cancelled

47. (Previously Presented) A tape prepared according to the method of claim 45.

EVIDENCE APPENDIX

There is no evidence submitted.

RELATED PROCEEDINGS APPENDIX

There are no related proceedings.